



75th Anniversary  
1908-1983

# FOLIO

## McCalla Professorships Announced

David Biggs, Pharmacy and Pharmaceutical Sciences; David Jones, Law; and J.W. Osborn, Dentistry, were recently informed by President Horowitz that they have been named McCalla Professors for the academic year 1983-84. They had been recommended for the research-oriented awards by the Endowment Fund Small Faculties Committee: McCalla Professorships. Welcome news, indeed.

For his part, Dr. Biggs will further studies into the effects of carotid-sinus-nerve stimulation on bronchial tone in guinea pigs. The bronchoconstrictor effect of nerve stimulation may result indirectly from reflex effects on the pulmonary vasculature, Dr. Biggs stated in his application for a McCalla Professorship. Clinically, he continued, this relates to the involvement of baro-and chemo-receptor reflexes in bronchial and pulmonary vascular tone in asthma, chronic bronchitis, and emphysema.

Dr. Biggs's primary objective is to develop and validate methods for measuring and recording pulmonary arterial pressure and the injection of drugs into the aortic arch, in anesthetized paralyzed guinea pigs. He also wants to determine whether baro- and chemo-receptors in the aortic arch, carotid body, and carotid sinus reflexly affect pulmonary arterial pressure, using carotid-sinus-nerve (CSN) stimulation and selective baro- and chemo-receptor agonists.

Dr. Biggs intends to characterize effects observed in the second objective, using selective antagonists and by sectioning nerves. His final objective is to try to determine whether the bronchoconstrictor effects of CSN stimulation are due to or caused by

changes in the pulmonary vasculature or whether these two components (simultaneously or in sequence) are mediated via separate neural pathways.

The guinea pig is "an especially suitable animal model for this research," Dr. Biggs relates. Both its pulmonary and bronchial arterial circulations contain uniquely large amounts of smooth muscle, and thus this animal probably is more sensitive than other species to potential reflex cardiopulmonary effects. Normal guinea pig lung contains arteriolar anastomoses between the pulmonary and bronchial circulations, similar to those in human lung in the fetus and in many cardiopulmonary diseases, he says.

Dr. Biggs feels that the results of his experiments should indicate the role of sensory receptors in the pathogenesis of cardiopulmonary disease.

Professor of Pharmacy and Pharmaceutical Sciences, Dr. Biggs is also a Research Associate with the University of Alberta Hospitals. He received a BPharm from the University of Nottingham in 1961 and a PhD from the University of London in 1967.

Dr. Biggs, who has been on the faculty of our University since 1969, belongs to a number of professional societies including the Pharmacological Society of Canada, the New York Academy of Sciences, the International Association of Forensic Toxicologists, and the British Pharmacological Society. He has a total of sixty-one publications to his credit.

David Jones proposes to complete a text on the principles of administrative law as well as work on a book on the concepts of corporate taxation. He points out that

"there is no good Canadian text on administrative law, although the subject is compulsory in most universities in the country, and extremely important in practice in light of the great involvement of all levels of government in every area of human activity."

Professor Jones envisions a coherent, intellectual, and critical exposition of the concepts and principles which underlie administrative law. He has published extensively in administrative law over the past decade and is hopeful that his new text will be useful both as a teaching tool and as a reference work in practice.

The contract between Professor Jones and the Carswell Company of Canada Ltd., a leading Canadian legal publisher, calls for delivery of the manuscript by 31 December 1983.

Professor Jones's second project—the book on the concepts of corporate taxation—will also be published by Carswell, although not until the second half of this decade is upon us. Having taught corporate taxation for some ten years, Professor Jones has found that his material has "coalesced into a workbook of notes, explanations, problems, and answers which already form the core of the proposed book." The McCalla Professorship allows him the uninterrupted time in which to complete the first text and forge ahead with the second book.

A graduate of McGill University (BA) and Balliol College, University of Oxford (BA, BCL, MA), Professor Jones articled with the federal Department of Justice and with Atkinson, McMahon, Tingle & Harrison Barristers and Solicitors in Calgary. He came to this University in 1973 as a sessional lecturer and achieved the rank of

Professor in 1982. He has been Associate Dean of the Faculty of Law since 1978.

In addition to Administrative Law and Corporate Taxation, Professor Jones has taught Taxation, Real Property, the Law of Competition (formerly called Legal Problems in Government Control of Business), Personal Property, and Company Law.

Dr. Osborn is starting his second five-year term as Chairman of the Department of Oral Biology. He came to this University in 1978 as a leading authority in aspects of dental anatomy, specifically in evolution and embryology of dentitions. Dr. Osborn used his available time to try to understand the relationship supposed to exist between the ways in which upper and lower teeth meet together (referred to as occlusion) and the joint between upper and lower jaws (the temporomandibular joint). Discrepancies between them are supposed to lead to the very common condition in man known as myofascial pain dysfunction, he noted in his McCalla application.

By measuring human skulls, fossil humanoids, and other animal skulls in collections at the University, Dr. Osborn was able to study the aforementioned relationship. Upon gaining his own laboratory he divided his research time between the development/experimental embryology work of the laboratory and the occlusion/jaw joint work related to museum material. As his research time dwindled due to administrative commitments, he took to favoring the occlusion study as "it is a much easier field in which to obtain data and to publish results." Since, in his opinion, the embryology studies have more far-reaching significance, Dr. Osborn welcomes the

nine months of uninterrupted research time afforded by the McCalla Professorship.

Regarding the embryology work, he notes that every mammalian species has a set of teeth whose

number, shape, and irregular sequence of development is the same for every member of the species. "Furthermore, the shape of each tooth is different for every tooth position with the result that an isolated tooth

can provide sufficient information to establish the identity of the animal which possessed it and its position in the jaw." Because they are hard and durable, Dr. Osborn explains, teeth provide the finest available record of vertebrate evolution and an outstanding model for the measurement of even the smallest changes in shape.

He has been investigating the possible biological controls involved in the evolution and control of gradients in tooth shape, changes in tooth number, and the sequences in which teeth develop.

According to Dr. Osborn, it is possible that teeth provide the best model for investigating what some consider the most important biological problem since the elucidation of DNA: the controls involved in the development of shape. "Although DNA finally controls development, it operates through the medium of cell growth and division to produce differently shaped teeth and we

need to have accurate counts of change in the cell population which gives rise to different shapes."

Dr. Osborn began his medical education at Guy's Hospital in London, England, in 1950 and went on to receive LDS, RCS, BDS, FDS, and PhD degrees. From 1968 until his 1978 appointment at this University, he was head of the Unit of Anatomy in relation to Dentistry at Guy's Hospital.

Dr. Osborn has published widely with respect to tooth enamel structure, development and evolution; the organization and evolution of dentitions; and developmental controls of tooth shape.

The McCalla Professorships rank among the most highly coveted awards offered by The University of Alberta to faculty members who are committed to advanced research. The professorships, named for the former Dean of Agriculture, are supported by the Endowment Fund for the Future. □

## Lisbeth Hockey to Visit Faculty of Nursing

The Director of the Nursing Research Unit within the Department of Nursing Studies at the University of Edinburgh will be a Distinguished Visitor to our University's Faculty of Nursing. Lisbeth Hockey, a highly respected member of the nursing profession since 1945, will be here from 7 to 18 February. A highlight of her stay will be the presentation of a public lecture on 14 February at 4:30 p.m. in TL-2 (lower floor) Henry Marshall Tory Building. Dr. Hockey will discuss nursing research.

Shirley Stinson, Professor of Nursing and Associate Dean of the Faculty, considers Dr. Hockey a "world pioneer" in nursing research, a person "without parallel in terms of designing, conducting, implementing, funding, and communicating nursing research,

both within academe and within a wide range of hospital, home care, and public health agency settings."

In terms of organization for nursing research, through her direction of the Nursing Research Unit at the University of Edinburgh, she has provided the nursing profession with a model of nursing research development, one which is viable not only in terms of sound research within nursing but which provides for extensive interdisciplinary health research with medicine and related disciplines, Dr. Stinson said in advance of Fall Convocation 1980, the occasion at which Dr. Hockey was conferred an honorary Doctor of Laws degree by our University.

Nursing research, that is, the systematic development and testing of nursing knowledge having to do with health teaching and with the care and comfort of the ill, is, in the main, a development of the last twenty-five years. In Dr. Hockey's case, there were no "models" to follow; there was no existing infrastructure even for scientific exchange among those doing research, much less established nursing research institutes and funding mechanisms. Dr. Stinson lauds the Distinguished Visitor for being "a real sod-turner who has made a brilliant, comprehensive and internationally-significant contribution to nursing research."

Dr. Hockey has a BSc and a doctorate from the London School of Economics and Political Science. A native of Austria, she has travelled the world lecturing and consulting on the various aspects of nursing. She is a Fellow of the Royal Society of Medicine, a Fellow of the Royal College of Nurses, and a member of the Society for Social Medicine. Dr. Hockey has received the Order of the British Empire and has been honored by numerous institutions. □

## Waldo Tobler Accepts Distinguished Visitor Invitation

Waldo Tobler of the Department of Geography, University of California, Santa Barbara, has accepted an invitation to be a Distinguished Visitor to our University from 6 to 18 February with sponsorship from the Endowment Fund for the Future.

Professor Tobler is a pioneer in the development of modern theoretical and mathematical geography and cartography. Much of the impetus for this development came from faculty and students of the Department of Geography, University of Washington, Seattle, where Dr. Tobler received a PhD in 1961. A main interest for him has been analytic cartography, particularly the use of computers to draw maps to facilitate the study of spatial patterns and flows.

He is currently teaching Methods of Regional Analysis Analytical Cartography, and Research Seminars on Geographical Flows at Santa Barbara.

Recently, Dr. Tobler was elected to membership in the

National Academy of Sciences, one of the highest honors an American scientist can be accorded. The honor recognizes continued and distinguished original research. Dr. Tobler has received several National Science Foundation grants and was elected an Honorary Fellow of the American Geography Society in 1966. In 1971, Dr. Tobler received the Association of American Geographer's Medallion as a "meritorious contributor to geography."

Dr. Tobler will present a public lecture entitled "Geography, Mathematics and Computers" on Wednesday, 9 February, at 3 p.m. in 129 Education South. On 11 February at 3 p.m. in T3-36 Henry Marshall Tory Building, he will lecture on "Transportation, Spatial Interaction and Migration." The sub-themes of the lecture are "Classical Models" and "A New Model." On 15 February at an as yet unspecified time, Dr. Tobler will talk on "Linear Spatial Operators," "Interpolation" and

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"Filtering" are the sub-themes and the Lister Hall Banquet Room is the setting.

During his visit, a one-day seminar in Computer Graphics and Mapping will be held, thanks to the organizational prowess of Jean-Claude Muller of the Department of Geography. The seminar is sponsored by the Canadian Cartographic Association, the Canadian Institute of Surveying, and the Department of Geography. Program/application forms are available from Dr. Muller.

The seminar is a follow-up to the National Cartographic Committee and the Canadian Cartographic

Association conferences on computer-assisted cartography held in 1980 in Edmonton and in 1981 in Calgary respectively.

The seminar's purpose is to bring together specialists in the fields of computer-assisted cartography and geographic information systems from government, universities, and private business. Dr. Tobler's work, especially in pattern recognition and statistical image analysis, should be of substantive interest to numerous scholars across campus, particularly those in mathematics, computing science and statistics.

Everyone is welcome. □

## Margaret Atwood to Join in "Celebrations"

The name of Margaret Atwood has become almost synonymous with the explosion of activity and interest in Canadian literature since the mid '60s. Well-known across the country for many award-winning novels, short stories, and books of poems, she is perhaps less well-known in her role as teacher. But, during the 1969-70 academic year, Margaret Atwood taught English at this University, and it is that connection that brings her back to campus next week to take part in "The Class of '69," the fifth in the highly successful series known as "Celebrations".

Through a series of homecoming weekends sponsored by the Canadian Studies Program and the Department of English in honor of the University's 75th anniversary, Celebrations has shone the spotlight on a number of recognizable "eras" in the English Department's 75-year history, and especially its contribution to the development of Canadian writers of distinction. "The Class of '69," to take place in the Humanities Centre on 11 and 12 February, highlights former and current members of the University staff who were writing and teaching here in 1969. Some were part of the huge influx of new faculty (the Department of English doubled in size between 1968 and 1970) and others were making ready to move on. All, however, have made names for themselves on the

Canadian, and increasingly the international, literary scene.

Joining Atwood for the festivities are other successful members of "The Class of '69." Dorothy Livesay, currently writer-in-residence at the University of Toronto's Massey College, taught in the English Department here from 1968 to 1972. Twice a winner of the Governor General's Medal for her writing, she published her first book of poetry, *Green Pitcher*, in 1928 when she was just eighteen.

Elizabeth Brewster, on staff at this University from 1968 to 1971, has published several books of poetry, and an autobiographical novel, *The Sisters*. A native of New Brunswick, she now teaches English at the University of Saskatchewan.

Wilfred Watson needs little introduction to the University community. For twenty-five years a member of the Department of English (1951 to 1976), he won the Governor General's Award for poetry in 1955 for *Friday's Child*. A highlight of the Friday afternoon session will be a presentation by two teams of actors of dramatic readings from his most recent book, *Mass on Cowback*.

Yet another winner of the Governor General's Medal to take part in the weekend celebration is poet and literary critic Stephen Scobie, who arrived on campus in 1969 and taught here for twelve years



The most prestigious awards available to students in creative writing at this University are the Folinsbee Prize (\$300) and the Folinsbee Scholarship (\$2,200), created in the memory of James Patrick Folinsbee (1921-1955). On Friday, 14 January, as part of the Celebrations series "The Rising Generation," a collection of works since written by winners of the Folinsbee awards were presented to R.E. Folinsbee, brother of James Patrick Folinsbee and Professor Emeritus of Geology at this University (right). In accepting the books from Bert Almon (left), Dr. Folinsbee complimented the efforts of those involved in the creative writing program at the University, saying "It's nice to see creative writing coming home."

before moving on to the University of Victoria where he is presently a professor of Canadian Literature.

The list of distinguished participants is rounded out by two continuing members of the Department of English. Doug Barbour, who came to Edmonton in 1969, and Bert Almon, who arrived a year earlier, are both well-published poets presently

teaching creative writing at this University.

The two-day Celebration will feature readings, dramatizations, book autographings, and an opportunity to meet and talk with many of the distinguished participants. Further details on the times and locations of the events appears in Coming Events. □

## Managing Director Appointed for MAI

John Tweddle, Chairman of the Board of Directors of the Management Advisory Institute (MAI), is pleased to announce the appointment of William A. Preshing as Managing Director of MAI. The Management Advisory Institute of The University of Alberta, founded in 1975, has as its major purposes: • to develop programs to seek out and identify the problems which face the managers of small business firms in Alberta; • to assist and support the private sector consulting industry

by sharing knowledge, technology, and new techniques; • to serve as a vehicle for increasing public awareness of resources available within the University, as well as helping faculty members and students to understand the problems existing in business and industry better and; • to disseminate and share current knowledge with management in both the private and public sectors and thereby enhance the usefulness of the University.

Dr. Preshing, in addition to carry-

ing out the responsibilities of Managing Director of MAI, holds a joint professorial appointment in the Faculties of Extension and Business. He is the author of several textbooks and more than 300 articles in the fields of business, management, and marketing. Prior to his re-

turn to academic posts and that of Managing Director of MAI, Dr. Preising was Director of Community Relations for The University of Alberta.

For further information, telephone 432-2225. □

## A Map by Any Other Name is Still a Map...

At first glance, it looks much like any other campus map. Green and gold, it hangs in the foyer of Athabasca Hall, with the massive Biological Sciences Centre defining the northwest edge of campus, and the new Walter C. Mackenzie Health Sciences Centre the southeast. Under careful scrutiny, however, it becomes evident that this is no ordinary campus map. This, in fact, is a Tactile-Graphic Orientation Aid—a specially designed guide to the campus which has been “rendered in such a fashion as to be legible to a person with any degree of vision impairment up to and including total loss.”

The map is the brain-child of Marion Nicely, the University’s Coordinator of Services for Disabled Students, who realized its potential as a means of making the campus more accessible to the visually impaired. With her direction and under the auspices of STEP (Student Temporary Employment Program), design and construction of the map was taken on last spring by two students; Susan Scott, a second-year Home Economics student with a background in Art and Design and Textiles, and Ron Checora, an After Degree student in Elementary Education with a background in Audio-Visual and Art and Design.

The assignment faced by the two STEP students was a relatively open-ended one, since the design and construction of such a map is still quite an experimental process and depends, in large part, on the area being charted. From the outset, however, it was clear that input from numerous resource people, particularly the visually impaired, would be a key to the successful

completion of the project.

The finished product was installed earlier this month in the foyer of Athabasca Hall, home to the Office of Student Affairs. Three-dimensional in its design, the map includes a special index (in alphabetical and numerical order) of all major buildings and locations rendered in both raised letters and braille. A modified drafting T-square acts as a cursor for the grid system and is to be used in conjunction with a mobility instructor guide.

Proximity to the Office of Student Affairs means that help is close at hand for first-time users of the map.

Funding for the project came from the Canada Manpower STEP program, the Office of Student Affairs and, perhaps most importantly, from a private donation (matched by the provincial government) which provided for the materials and construction of the map. According to Marion Nicely, the map is just the beginning of a long-term effort to make the campus more accessible to the visually impaired. The next step? “I hope to initiate another project next summer,” says Nicely. “A project that would see this kind of map on a building by building basis; a tactile blueprint, if you will, that could be placed in the foyer of a building and would include the location of such things as elevators, washrooms, fire exits, etc. That would be a big help to the visually impaired.”

The focus of the Office of Student Affairs is on problem solving and, while the final verdict on the true value of the tactile map will come only with time and use, it would appear that such an initiative goes a long way towards solving at least one of the problems facing the University’s visually impaired. □

## Canada, the World and the Future

While not a reader of tea leaves, nor a crystal ball gazer, J. Gordin Kaplan, Vice-President (Research) definitely has an eye on things to come. And, in celebration of the University’s past, he is sponsoring a week-long conference that looks into the future. “Canada, the World and the Future,” yet another in a long line of important 75th anniversary events, will take place on campus from 14 to 18 March.

The conference, designed to explore and debate some of the key issues facing Canada and the world with an emphasis on the future, will bring to campus a number of national and international dignitaries in various disciplines. Joining with experts from across the campus, they will address the following sub-themes: 1) Women: Is the Battle

Lost?; 2) Food, Technology and Population; 3) The Arts and the Sciences in Society; 4) The Judicial Process: Human Failings and Virtues; 5) Issues of Life and Death in Medicine and the Law; and 6) War and Peace. In addition, there will be a performance by the University of Alberta Madrigal Singers.

“It is hoped that this conference will be the beginning of an on-going, annual event under the same title, but with different sub-themes,” explains Baha Abu-Laban, Associate Vice-President (Research). The interdisciplinary conference is free of charge and open to the general public. More detailed information on the conference will be included in a forthcoming issue of *Folio*. □

## General Policy on Private Donations

According to Board of Governors policy, donations to the University are sought after and welcomed, subject to the following:

1. All donations are made to the University and are held in the name of the Board of Governors.
2. Any conditions or limitations attached to any donation must be acceptable to the Board of Governors. No condition is acceptable if it contravenes institutional autonomy or academic freedom.
3. The Board of Governors may refuse any donation if acceptance requires the provision of special personnel, facilities or services or the expenditure of University funds beyond those which the Board is willing and able to provide.
4. Donations for Capital purposes, gifts-in-kind and endowment-type donations are covered in specific policies approved by the Board.
5. Any solicitation of donations for the University, or using the University’s name, must be approved in advance by the President. Any University officer or employee, or any group proposing to act in or use the University’s name, must apply for such approval through the Fund Development Office before commencing any campaign or public promotion for donations. When outside individuals or representatives approach any officer or employee of the University with a view to making gifts or donations, this should be reported promptly to the Fund Development Office.
6. Certain types of gifts require special approvals. (a) The establishment of a chair or a new Faculty, Department, School, Centre or Institute must be approved by the Board of Governors through the Academic Development Committee.  
(b) The extension, expansion or establishment of a program of studies must be approved by the Minister of Advanced Education through the Academic Development Committee and the Board of Governors.  
(c) Major capital expenditure, including a new building, major alterations or additions to an existing building or the acquisition of

land, may require approval by the Minister of Advanced Education through the Facilities Development Committee and the Board of Governors.

7. Guidelines and procedures for the implementation of Board policies relating to donations and matching grants are the responsibility of the President and Vice-Presidents, who

will report them to the Board through its committees.

On the subject of gifts and donations, Policy on Gifts-in-Kind, Policy on Endowment Funds, and Policy on Donations for Capital Purposes will be included in Revision 25 of the *Manual of Administrative Procedures*, to be released later this month. □

## CJSR: a Promise of Performance

The first of March promises to be a big day in the life of CJSR, the University's student-owned and operated radio station. For on that day, an application to "go FM" will be presented to the Canadian Radio-Television and Telecommunications Commission (CRTC) at a public hearing in Hull, Quebec.

If successful in its bid for a Low Power FM Broadcasting License, CJSR will be the first campus/community FM radio station in Alberta and, according to Steve Cumming, FM Consultant for the station, it will "offer to the Edmonton area a truly unique style of FM radio, in diversity and style of programming, and in its presentation."

The March hearing holds a different significance for a campus station than for a commercial one, says Mr. Cumming. "I don't want to appear to be second-guessing the CRTC, but it seems safe to say that the hearing, in this case, is almost certainly a formality," he explained at a press conference held on Monday, 24 January. "There are a number of successful campus FM stations in Canada, and the CRTC has been most supportive of them," he continued.

Low Power FM is a special class of broadcasting with definite restrictions. Whereas a commercial operator might well have a high-powered transmitter of, say, 50,000 watts, the low power FM may broadcast at no more than 50 watts. The range of the proposed CJSR-FM is about seven miles, a far cry from that of commercial stations.

Funding for the new venture comes from several sources, says CJSR

Station Manager Colin Keylor: advertising revenue, grants from both the Students' Union and the University's Board of Governors, and from the fund raising efforts of a group known as the Friends of CJSR.

A successful bid for the FM license would mean that CJSR-FM would be on the air in October. □

## Food Science to the Fore

The Department of Food Science has undertaken an innovative series of seminar/workshops built around topics of importance to food science research and education in Canada. The series began on 17 January with a visit by E. Graham Bligh, Director of the Fisheries Research and Technology Laboratory, Technical University of Nova Scotia. On 20 January a symposium on modified atmosphere packing and storage of perishable foods was held.

The series will resume on 14 February with Dairy Research Update. Joe Tobias of the Food Science Department at the University of Illinois, will present a seminar entitled "Chemistry and Technology of Milk Protein, a Research Update." The seminar will start at 11 a.m. in 165 Education South. From 2 to 4:30 p.m. that

day Dr. Tobias will be in 2-10 Agriculture-Forestry Centre to discuss milk protein research with interested people.

The following day, also at 11 a.m. in 165 Education South, he will present the seminar "Chemistry of Flavor in Milk, Ice Cream, and other Dairy Products." Between 2 and 4:30 p.m. in 2-10 Agriculture-Forestry, he will preside over a workshop on "Training Personnel for Dairy Judging."

Other programs in the series are planned for 7 and 8 March, 14 and 15 March, and 21 and 22 March. The series is sponsored by the Department of Food Science with the generous support of the Endowment Fund for the Future. Further information on the series can be obtained from F.H. Wolfe, Chairman of the Department, at 432-5188. □

## Recent Activities of The Office of Institutional Research and Planning

Since 1978, a major activity of the University of Alberta's Office of Institutional Research and Planning (IRP) has been improvement of the University's data bases in the areas of students, personnel, courses, space, and finance. This activity, which was originally associated with campus-wide collection of detailed information from Faculties and departments, was initiated by motions of General Faculties Council and the Board of Governors in 1978.

IRP regularly undertakes many single projects such as surveys of the characteristics and opinions of undergraduate and graduate students; analyses of grades awarded in undergraduate courses with large enrolments from 1970-71 through 1981-82; analyses of staff employed in "soft-funded" positions; development of a draft Space Manual (jointly with the Office of Facilities Planning); analyses for WISEST, the Task Force of the Vice-President (Research) on Women in Science and Technology; and

evaluation of the Challenge Examination fees.

Recurring projects, which are usually undertaken annually or each term, are exemplified by calculations of Weekly Student Hours and Weekly Contact Hours for each course section, department and Faculty; the survey of quotas; summaries of full-time equivalent academic and non-academic staff by categories, departments and Faculties; summaries of department/Faculty data for units to be reviewed under arrangements made by the President's Advisory Committee on Campus Reviews (PACCR); maintenance of the Register of Centres, Institutes and Special Units; and preparation of the *Data Book*.

Some new projects are currently underway. For example, questionnaires are to be mailed to a sample of 600 part-time students in February. Also, a survey of the extent of usage of rooms and stations ("seats") will be conducted in 1982-83 in a more detailed manner

than previously, and this survey will probably be conducted annually.

IRP staff members also provide service to several University of Alberta committees. Reference was made to analyses for the WISEST Task Force. Other committees served include PACCR, the Facilities Development Committee, the *ad hoc* committee on "soft-funded" positions, the Academic Development Committee, and the Senate Task Force on Mature Students. Requests for non-routine analyses from Deans, Chairmen and other administrators are received periodically and responded to as quickly as resources allow.

Information about some of these projects is provided below. A detailed article on the results of the survey of graduate students will appear in a later article in *Folio*.

### Academic Data Base

The Academic Data Base was established to provide information to assist University administrators when

making decisions. Information is collected annually. Some changes have been made over the years in the type and format of information collected, and each year more information is available from central sources. During this year, data on various aspects of Faculties and departments, including courses, students, staff, and finances will be obtained centrally, while other information, such as numbers of academic publications, measures of other scholarly activities, and numbers of non-thesis master's students, will be obtained from departments and Faculties. In addition, certain information will be sent to Faculties for verification.

Summary data for the entire University by Faculty have been compiled in the *Academic Data Base*, and each departmentalized Faculty also has received a *Faculty Supplement* presenting data at the departmental level. Effective 1983, however, the *Academic Data Base* publication will be discontinued, and all information will be presented in the *Data Book* and *Data Book Faculty Supplements*.

#### *Costs of University Research: Phase II*

The report, "Study on the Costs of University Research: Phase II," was prepared by IRP for the Vice-President (Finance and Administration) and the Comptroller in response to a request from the Canadian Association of University Business Officers. Fourteen Canadian universities with sponsored research expenditures in excess of \$1 million during the 1979-80 fiscal year participated in the study. The collected data, summaries and conclusions were submitted to the Association of Universities and Colleges of Canada. A joint presentation was to be made to the appropriate federal bodies with the intent of supporting an increase in the rates of reimbursement of research overhead. The report contains data on overhead rates for each Faculty as well as for groups of related Faculties.

#### *Data Book*

The University of Alberta *Data Book* is a compendium of University statistics. It includes data on student enrolment, degrees granted, courses, academic and non-academic staff, grades, space, and finances for a

five-year historical period. These data are used in analytical and planning activities and are also of general interest. Several substantial revisions are planned for 1983. The *Data Book* is distributed to people and offices such as the Board of Governors, the Senate, the President and Vice-Presidents, all Deans and Department Chairmen, members of senior committees of General Faculties Council, and directors of selected support departments. It is also widely distributed to various government departments, off-campus organizations, and other universities.

#### *Information for PACCR*

Since 1980, when PACCR initiated a pilot study for the review process on campus, IRP has been involved with providing data to the Committee and to the units involved. In each of the last two years, about fifteen units, both academic teaching and administrative support, have been involved in the review process. Each unit receives a standard two-page historical summary of data prepared by IRP. These data relate to staffing, budget, and students. Apart from these standardized tables, IRP responds to requests from units under review from further information to be used in preparation of their self-study reports.

#### *Register of Institutes, Centres, and Special Units*

The Register of Institutes, Centres, and Special Units is maintained by the Office of Institutional Research and Planning for the Vice-President (Academic) and the Academic Development Committee. It includes all units which have a designation such as Institute, Centre, Unit, Group, Facility, or Society. In addition, the unit must have staff members who are paid from University of Alberta operating or trust funds, and/or occupy physical facilities which are owned or rented by The University of Alberta. Each unit provides information including its history, purpose and/or functions; numbers of staff, funding and sources of funds; and location and size of physical facilities occupied by the unit.

#### *Staff Analyses for WISEST*

The Jackel/Morrison sub-group of the WISEST Task Force obtained

information from IRP on both full-time and part-time faculty employed in December 1981, especially regarding the proportional representation of men and women across a series of job-related categories. The statistical analysis included the frequency distribution of University of Alberta academic staff by sex, rank, and Faculty. (A summary report is available from the authors.) This analysis was reported in *Folio* (4 November 1982).

#### *Student Analyses for WISEST*

IRP has also assisted members of the WISEST Task Force in their study of female students' enrolment patterns and academic performance at The University of Alberta. The Task Force was provided with data by IRP for the Winter Sessions 1970-71 to 1981-82 in the form of printed tables on the following: University of Alberta enrolments by sex, year, and degree program; Alberta high school matriculation average distributions of University of Alberta students by sex within degree program; University sessional GPA distributions by sex within program; and grade distributions by sex within selected courses and course groupings.

#### *Student Flow System*

The IRP Student Flow System, which is currently being developed, is a collection of data sets and structures, software, procedures, and documentation appropriate to the description and analysis of student flow. The "flow" of a student refers to the transition over time of certain characteristics including the student's Faculty, program, specialization, year of program, and registration status, as well as measures of the student's sessional academic workload and success. Other relevant data can be related to these transitions, including previous academic history (such as last school attended) personal information (such as sex and age), and other academic information not specifically related to a single particular session (for example, convocation data).

The system will have applications in a number of different areas of interest to IRP clients: (1) studies of academic performance of student cohorts; (2) analysis of stopout/

dropout/returning students; (3) examination of the movement of students into, through, and out of each degree program, as well as the movement among identified groups of programs; and (4) projections of the continuing-student component of future enrolments by Faculty (as part of the IRP enrolment projections), or at other levels of aggregation (for special projects).

#### *Study of Credit by Special Assessment*

As a follow-up to the report of the Senate Task Force on Second Languages, an Associate Vice-President (Academic) asked IRP to look into possible reasons why so few students who speak a second language seek Credit by Special Assessment in language courses, and in particular whether the fees charged serve as a deterrent. This study has been restricted to the Faculty of Arts, where the chances should be best for students to take Credit by Special Assessment in a second language. IRP has conducted (a) an informal survey of language departments, and (b) a telephone survey of 200 Arts students in order to determine the frequency of Credit by Special Assessment, the opportunities available to students, students' awareness of the available opportunities, the prevalence of knowledge of second languages, and students' feelings about fees for Credit by Special Assessment.

#### *Survey of Quotas*

The Survey of Quotas is conducted annually for the Academic Development Committee. Information is collected from the relevant Faculties on numbers of applicants and admissions, criteria for admission, rationales for quotas, resources required to increase quotas, and proposed quotas for the upcoming year. Quota programs now exist in Agricultural Engineering, Drama, BA (Special) in Criminology, Business, Dental Hygiene, Dentistry, Engineering, Law, Library Science, Medical Laboratory Science, Medicine, Nursing, Pharmacy and Pharmaceutical Sciences, and Rehabilitation Medicine. The information is documented in the *Survey of Quotas* which is distributed to various administrators.

*University of Alberta Space  
Manual*

The University of Alberta Space Manual was prepared for the Vice-President (Facilities and Services) by IRP and the Facilities Planning Office. It contains a brief history of the Donovan Smith Unit Area Allowances, previously approved space-related policies, and the following sections:

1. Policies for Space

Management—aspects of space management such as the recall and reallocation of space, control, and utilization of classrooms and class laboratories, and allocation of office and research space.

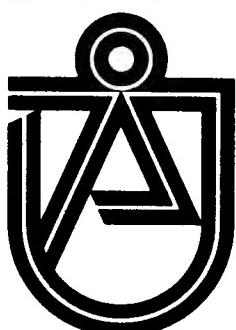
2. Space Planning Guides—the normal maximum allowances for new construction and renovations for facilities such as offices, conference rooms, classrooms, class laboratories, and libraries.

3. Non-Formula Space—a description of the type and sizes of facilities which are to be included.

4. University of Alberta Unit Area Allowances—the space factors and a description of development of the University of Alberta Unit Area Allowances which are used to generate the physical facility requirements for classrooms, class laboratories, offices, and research laboratories.

The University of Alberta Space Manual is currently being reviewed by the Facilities Development Committee. It will probably be available for general distribution in 1983 after all revisions are completed.\*□

\*The foregoing article was contributed by E.A. Holdaway, Director, Office of Institutional Research and Planning. □



**Program  
Information**  
**432-2325**

## service information

*All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.*

### Coming Events

#### Lectures and Seminars

##### Alberta Heritage Foundation for Medical Research

3 February, 2 p.m. John Fessler, Molecular Biology Institute, University of California, Los Angeles, will speak on "Basement Membranes in Development." Sponsored by the Department of Zoology. CW410 Biological Sciences Building.

15 February, 4 p.m. Arthur J. Olson, Research Institute of Scripps Clinic, La Jolla, California, will speak on "Application of Computer Graphics to the Study of Biological Macromolecules and Macromolecular Assemblies." Sponsored by the Department of Biochemistry. 2-31 Medical Sciences Building.

##### Department of Educational Psychology

9 February, 7:30 p.m. Reuven Feuerstein, Bar Ilan University, Israel, will speak on "Instructional cognitive modifiability: Need, Possibility, and Ways. Implications for parents, educators, and therapists." 2-115 Education North.

16 February, 7:30 p.m. Dr. Feuerstein on "The Teacher and the School as mediating Agents: Goals, means and significance." This lecture is intended for teachers and administrators.

##### Chaplains

3 February, 3 p.m. Father Bob Stark, University of Chicago and a priest in Nicaragua, will speak on "The Political and Religious Situation in Central America." Father Stark is in Alberta as a speaker for "Ten Days for World Development." Meditation Room, 158 SUB.

##### Department of English

3 February, 3:30 p.m. Sam Rees and Rudy Wiebe will present a seminar entitled "Public Funding and the Literary Arts: Applebaum-Hebert and After." 5-20 Humanities Centre.

10 February, 3:30 p.m. E.L. Bishop, will present a seminar entitled "The Instinct to Create: The Method of Virginia Woolf's Essays." 5-20 Humanities Centre.

##### Department of Sociology

3 February, 3:30 p.m. Augustine Brannigan, University of Calgary, will present a lecture entitled "The Legal Context of Plea Negotiation." 113 Law Centre.

15 February, 3:30 p.m. John O'Neill, York University, will speak on "Bureaucracy and Discipline: Weber and Foucault." 2-11 Humanities Centre.

##### Department of History

4 February, 3:05 p.m. DeLloyd J. Guth, Visiting

Associate Professor, University of Victoria Law School, will speak on "Late-Medieval Sexuality and the Law." 2-58 Tory Building.

11 February, 3:05 p.m. Ivan Rudnytsky will present a colloquia on "Michal Czajkowski's Cossack Legion: An Episode in the Crimean War." 2-28 Tory Building.

##### Department of Zoology

4 February, 3:30 p.m. Robert Prusch, Department of Life Sciences, Gonzaga University, will speak on "Characteristics and Mechanism of Endocytosis in *Amoeba Proteus*." CW410 Biological Sciences Building.

Roy C. Anderson, a Visiting Professor to the

department, will present the following lectures:

8 February, Noon. "Some General Features of the Nematoda." CW410 Biological Sciences Building.

9 February, Noon. "The Nematode Invasion of Terrestrial Animals." CW410 Biological Sciences Building.

10 February, 1 p.m. "The Nematode Invasion of Aquatic Vertebrates." CW410 Biological Sciences Building.

11 February, Noon. "The Worm Within, Past and Present." CW410 Biological Sciences Building.

11 February, 3:30 p.m. Ann L. Kyle, will present a seminar on "Neural and Endocrine Control of



# The Senate

The University of Alberta

### Nominations for Public Members

We invite nominations from the public for several vacancies on the University Senate. Volunteer members serve on Task Forces and Committees dealing with educational issues. Senate meets formally four or five times a year.

**It is the duty of the Senate to inquire into any matter that might enhance the usefulness of the University.**

**There are no formal qualification requirements but consideration will be given to community service of nominees from central and northern Alberta. Members serve for a three-year term beginning July 1.**

**Nomination forms requiring the signatures of two nominators, are available from the Senate Office, and should be returned, completed, by March 1, 1983**

**The Chairman, Nominating Committee  
The Senate  
The University of Alberta  
150 Athabasca Hall  
Edmonton, Alberta  
T6G 2E8**

**Telephone 432-2268**

Spawning Behavior in Male Goldfish." CW410 Biological Sciences Building.

#### *Faculty of Pharmacy and and Pharmaceutical Sciences*

7 February, 10 a.m. A.A. Sinkula, Upjohn Research Center at Kalamazoo, Michigan, will speak on "Prodrugs #1." 2022 Dentistry/Pharmacy Centre

8 February, 10 a.m. Dr. Sinkula will present a seminar on "Prodrugs #2." 6069 Dentistry/Pharmacy Centre.

#### *Department of Germanic Languages*

7 February, 3 p.m. Horst Richter, McGill University, will speak on "The Uncovering of a Treason. The Presentation of Galon in the German Rolandspiel." Arts 17.

7 February, 8 p.m. Professor Richter will present a seminar entitled "King Arthur and Arthurian Literature. Is it still relevant today?" B-45 Tory Building.

#### *Phi Delta Kappa*

7 February, 5:30 p.m. The University of Alberta Chapter of Phi Delta Kappa will meet at Lister Hall. Larry Shulman, University of British Columbia will, speak on "The Future of Administration."

#### *Departments of Sociology and East Asian Languages and Literatures, and the Centre for Gerontology*

8 to 11 February. Fumie Kumagai, Graduate School of International Relations, International University of Japan, will be visiting the campus. Dr. Kumagai will give three presentations—"The Status of Women in the Changing Japanese Family: 1600 to the Present"; "Family Violence in the Japanese Family: Conjugal, Filial and Child Abuse"; and "The Changing Status of the Aged in the Japanese Family." For information on the specific times and locations of these presentations, please contact one of the sponsoring units or consult posters on campus

#### *Department of Biochemistry*

8 February, 4 p.m. Hagen Bayley, Department of Biochemistry, College of Physicians and Surgeons, Columbia University, will present a seminar entitled "Recent Studies Using Photochemical Reagents." 2-31 Medical Sciences Building.

#### *Department of Geography*

9 February, 3 p.m. Waldo Tobler, Department of Geography, University of California, will present a lecture entitled, "Geography, Mathematics and Computers." 129 Education South.

11 February, 3 p.m. Dr. Tobler will speak on "Transportation, Spatial Interaction and Migration." 3-36 Tory Building.

#### *Department of Botany*

9 February, 3:30 p.m. K.L. Alvin, Imperial College, England, will speak on "Aspects of Paleobotany." M-137 Biological Sciences Building.  
16 February, 3:30 p.m. T.C. Hutchinson, University of Toronto, will speak on "Aspects of Oil Spill Ecology" M-137 Biological Sciences Building.

#### *Department of Music*

10 February, 1:30 p.m. Wallace Berry, Chairman of the Department of Music, University of B.C., will present a lecture on "The Eroica

Introductions: Structure and Performance." 2-32 Fine Arts Centre.

#### *Boreal Institute*

15 February, 8 p.m. John England will present a seminar entitled "Contrasting Northwestern Greenland and Northeastern Ellesmere Island." CW410 Biological Sciences Building.

#### *Faculty of Arts*

17 February, 8 p.m. L.C. Green, University Professor, Department of Political Science, will present a lecture, "Is There an International Criminal Law?" Lecture Theatre 3, Humanities Centre

#### *Music*

##### *Department of Music*

3, 4, and 5 February, 8:15 p.m. The University of Alberta Mixed Chorus—Ron Stephens, conductor. Convocation Hall.

7 February, 5 p.m. A junior student recital featuring Nancy Bias on the violin.

7 February, 8 p.m. "Art Song Recital." Performers are students from the Art Song Interpretation class of A. Munn

8 February, 5 p.m. A junior student recital with Jeffrey Siegel, tenor.

9 February, 8 p.m. Brahms Festival featuring the Concord String Quartet with Gilbert Kalish, piano.

10 February, 8 p.m. A faculty recital featuring Elsie Achuff, soprano, with Ernest Dalwood, clarinet, and Jane O'Dea, piano.

#### *Exhibitions*

Until 6 February. "New Work New York." Ring House Gallery.

Until 15 March. Unheard Music: 20th Century Poetry in Rare and Illustrated Editions. The Bruce Peel Special Collections Room, B-37 Cameron Library.

#### *75th Anniversary Events*

Until 28 February. Faculty publications by members of the Department of Sociology are now on display across from the circulation desk in Rutherford Library North, as part of the Library's commemoration of the University's 75th anniversary.

The Brahms Library Display. To coincide with the 150th anniversary of the birth of Johannes Brahms, materials relating to the works and life of the composer. Rutherford Library Galleria.

3 to 12 February, 8 p.m. "Twelfth Night." Studio Theatre, Corbett Hall.

#### *Films*

##### *Chaplains' Association*

3 February "The Long Search: Quest for Faith" film series features "Rome, Leeds and the Desert" at 12:30 p.m. in the Newman Centre; 7:30 p.m. in 158 SUB. Sponsored by the Chaplains.

10 February. "The Long Search: Quest for Faith" film series features "There is No God But God" at 12:30 p.m. in the Newman Centre; 7:30 p.m. in 158 SUB.

##### *Department of Romance Languages*

Wednesdays, 3 p.m. The Italian Area of the Department of Romance Languages presents a series of films in Italian with English subtitles. For information, contact M. Verdicchio at 432-2003. 17 Arts Building.

#### *Department of Germanic Languages*

9 February, 7:30 p.m. "Emilia Galotti." (1968). 17 Arts Building

23 February, 7:30 p.m. "Trotta." (1977). 17 Arts Building.

#### *Radio and Television*

##### *Radio*

Programs broadcast on CKUA radio 580 AM and 94.9 FM.

4 February, 8 p.m. Voiceprint—"Language as a Manipulative Tool."

5 February, 7 p.m. University Concert Hall—Concerts, recitals, and interviews with Faculty and special guests of the Department of Music.

9 February, 7 p.m. Behind the Curtain—"Butterfingers" written by Jason Montgomery.

9 February, 7:30 p.m. Extensions—"Understanding the Criminal Justice System." Ron Wurtz and William Nicholls of the John Howard Society.

9 February, 7:45 p.m. Perspectives—Issues underlying current events examined in lively debate format

11 February, 8 p.m. Voiceprint.

##### *Television*

Programs broadcast on Q-9 and C-13

7 February, 9 p.m. Islam in Focus.

9 February, 9 p.m. Faculty Profiles—"College Faculte St.-Jean."

10 February, 9 p.m. Cancer. Proof Positive—"The use of modern techniques in cancer treatment."

#### *Sports*

4 and 5 February, 7:30 p.m. Golden Bear Hockey vs. University of Saskatchewan Huskies. Varsity Arena.

4 February, 6 to 11 p.m. Golden Bear Open Track and Field Meet. Kinsmen Fieldhouse.

5 February, 8 a.m. to 4:30 p.m. Golden Bear Open Track and Field Meet. Kinsmen Fieldhouse.

5 February, 9 a.m. to 9 p.m. Golden Bear and Panda Volleyball teams will host the Alberta Volleyball Association "AA" Tournament #1. Varsity Gym.

5 February, 3 p.m. Golden Bear and Panda Swimming and Diving teams vs. University of Calgary. West Pool.

6 February, 7 p.m. Golden Bear Hockey squad vs. Alberta College All-Stars. Varsity Arena.

11 February, 7:30 p.m. Golden Bear Hockeysquad vs. Calgary Dinosaurs. Varsity Arena.

11 February, 5:30 p.m. Golden Bear and Panda Swimming teams vs. Edmonton Keyano and Edmonton Olympian Swim Clubs. West Pool.

#### *Matters of Faith*

Lutheran Campus Ministry Worship each Sunday at 10:30 a.m. in the Newman Centre, the west basement of St. Joseph's College. All are welcome

9 February, 8 a.m. Faculty are invited to a continental breakfast, sponsored by the Chaplains. Meditation Room, 158 SUB.

#### *SUB Theatre*

##### *Films*

6 February, 4 and 7 p.m. The HUB Tenants' Association presents a film showing. For more information, phone Wakambo Kambo at 433-4885.

7 February, 8 p.m. The Edmonton Film Society presents "The Boat is Full", the seventh film in their International Series. Admission by series tickets only; they are available at the SU Box Office, Woodward's, or at the door

8 and 9 February, 8 p.m. "Fame." Featuring choreography by Louis Falco, whose company appears later in the month. Free admission to patrons who show their Falco tickets at the door.

11 February, 8 p.m. "Montenegro."

##### *Music*

3 to 5 February. The Medical Students' Association presents their annual MED SHOW. Performances at 8 p.m. on Thursday and Friday and 6 p.m. on Saturday. Tickets available from all medical students.

10 February, 8 p.m. SUB Theatre and Perryscope present D.O.A. with special guests Los Populos. Tickets available at the SU Box Office and all BASS outlets

#### *Non-Credit Courses*

##### *Devonian Botanic Garden*

Classes located at Botanic Garden. Phone 987-3054 for brochure, information, and registration details.

##### *Starting Seeds from the Members' Seed List*

Dates: 14 and 28 February. Time: 7 to 9:30 p.m. Fee: \$20. Information is offered on germinating many kinds of seed from the ordinary to the unusual.

##### *Ski at the Devonian Botanic Garden*

Date: 13 February. Time: 1 to 3 p.m. Fee: \$6. A plant-orientated cross-country ski tour of the Botanic Garden.

##### *Computing Services*

###### *Client Training Sessions*

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. Please phone 432-2261 first to confirm the dates. Payment is required in advance and clients who do not cancel two business days in advance will be charged. Contact Mardell Olson, Training Assistant, at 432-2261 or in 323 General Services Building, for more information.

##### *Introduction to Computing at the U of A*

Course number: 865. Date: 7 February. Time: 11 a.m. to 1 p.m. Fee: \$10. Prerequisites: No previous computing experience, but familiarity with a keyboard is required. Place: 351 GSB.

##### *MTS and Editor Fundamentals*

Course number: 866. Date: 9, 11 February. Time: 11 a.m. to 1 p.m. Fee: \$15. Prerequisites: "Introduction to Computing" or equivalent working knowledge of a DECwriter terminal and the MTS system. Place: 351 GSB.

##### *MTS Overview*

Course number: 917 Date: 8, 10 February. Time:

10 a.m. to Noon. Fee: \$15. Prerequisites: "MTS and Editor Fundamentals." Place: 315/327 GSB or 315/357 GSB.

#### Advanced Text Formatting

Course number: 937. Date: 14, 16, 18, 21, 23 February. Time: 2 to 4 p.m. Fee: \$25. Prerequisites: "Introduction to Text Formatting" or equivalent familiarity with TEXTFORM. Place: 315/351 GSB.

#### Introduction to Plotting

Course number: 946. Date: 22 February, 9 to 11 a.m.; 24 February, 10 a.m. to 1 p.m. Fee: \$20. Prerequisites: FORTRAN, basic MTS and Editor commands. Place: 315/351 GSB.

#### Integrated Graphics Overview

Course number: 948. Date: 2 March. Time: 1 to 3:30 p.m. Fee: \$10. Prerequisites: "Introduction to Plotting" is recommended. Place: 315 GSB.

#### Faculty of Extension

Division of Urban and Rural Planning  
For further information on the courses listed below, call 432-2912.

Environmental Impact Assessment  
Date: 14 to 15 February. Fee: \$125.

Practical Implications of Slow Growth  
Date: 24 and 25 February. Fee: \$150.

Residential Subdivision Layout (Level II)  
Date: 28 February to 1 March. Fee: \$125.

Business, Industrial and Professional Division  
For further information on the courses listed below, call 432-5066 or 432-5067.

Assertive Management for Women  
Date: 9, 10 and 11 February. Fee: \$250.

Tax Planning For the Owner Managed Business  
Date: 10 and 11 February. Fee: \$165.

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Short Course on the Income Tax Act  
Date: 15 February to 22 March. Fee: \$120.

Grievance Handling and the Arbitration Process

Date: 17 and 18 February. Fee: \$250.

Management for New Managers

Date: 21 and 22 February. Fee: \$165.

Assessing and Revising Your Compensation Program

Date: 24 and 25 February. Fee: \$165.

#### Field Trips

For further information on the courses listed below, call 432-5061.

Field Trip: The Annual Tucson Gem and Mineral Show

Date: 9 February. Fee: \$751.

Hawaii Geological Field Trip

Date: Orientation, 23 February. Fee: \$1,450.

Bamfield Marine Station Field Trip

Date: Orientation, 28 March. Fee: \$200.

#### Women's Program

For further information on the courses listed below, call 432-3093.

Appreciating Women in Music

Date: 8 February. Fee: \$40.

A Critical Analysis of Policies and Practices Which Affect Families

Date: 1 March. Fee: \$50.

Images of Women in the Media

Date: 9 February. Fee: \$30.

Applied Behavioral Sciences Division

For further information on the courses listed below, call 432-5069.

Strategies for Managing Stress—Section A

Date: 8 February. Fee: \$75.

Issues in Adoption Reunions

Date: 16 February. Fee: \$30.

Assertion and Interpersonal Skill Training—Level I, Section C

Date: 17, 18 February. Fee: \$75.

#### Liberal Studies Division

For further information on the courses listed below, call 432-2015.

The Incredible Machine

Date: 5 February. Fee: \$50.

Awareness Through Movement

Date: 1 February. Fee: \$70.

Aerobic Dance Plus

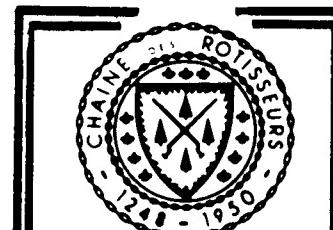
Date: 1 February. Fee: \$65.

French Immersion—Saturdays

Date: 19 February or 19 March. Fee: \$50.

Management Studies for Women

For further information on the courses listed below, call 432-2230.



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Tues. - Fri. 9-5; Sat. 9-12  
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**TEACHERS' INVESTMENT  
AND HOUSING CO-OPERATIVE**

**Dynamics of Organizational Behaviour**  
Date: 7 and 8 March. Fee: \$165.

**Understanding Business Numbers**  
Date: 11 and 12 March. Fee: \$165.

**Real Estate Division**  
For further information on the courses listed below, call 432-5060.

**Should I Buy This House?**  
Date: 9 February. Fee: \$30/person or \$40/couple.

## Notices

### Dean of Graduate Studies and Research

An Advisory Committee has begun its search for a Dean. Suggestions of possible candidates are invited. The University is an equal opportunity employer.

Nominations or applications should reach the Vice-President (Academic) by 1 March 1983, in the latter case accompanied by a detailed resume of qualifications and experience and the names of three referees. The appointment will take effect 1 July 1983 or as soon thereafter as possible.

### Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus

Reviews, the Department of Forest Science is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee. In preparation for this second phase, PACCR invites written comment prior to 28 February 1983.

Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee. Submissions should be sent to: Mrs. L. Pearson, PACCR Office, W4-13 Chemistry Building, Attention: The Forest Science Unit Review Committee.

### Waste Management Program

The mode of operation of the University's Waste Management Facility at Ellerslie will be featured on the QCTV program "The Local." A conversation with Stuart Hunt, Radiation Protection Officer, and Stan Ostapowich, Utility Engineer, will accompany the visual tour of the facility. This edition of "The Local" will be televised on 7 February. Check listings for time.

### Science in Physical Therapy Conference

The Third Annual Science in Physical Therapy (SIPT) Conference will be held on 17 and 18 June 1983 at the University of Calgary. Those interested in presenting in this conference should contact S. Kumar, Department of Physical Therapy, 210 Corbett Hall, for author's kit. The last date for submission of abstracts is 2 May 1983.

## Positions Vacant

*The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.*

### Non-Academic Positions

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboria Hall, telephone 432-5201. As positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 28 January 1983. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in P.S.S.R.*

Clerk Typist II (Part-Time) (\$1,106-\$1,324) Psychology

Clerk Typist II (\$1,106-\$1,324) Graduate Studies and Research

Admission Records Trainee (\$1,232-\$1,487) Office of the Registrar

Student Records Processing Clerk (\$1,232-\$1,487) Rehabilitation Medicine

Systems Control Clerk (Part-time) (Term) (\$758-\$884) Office of the Comptroller

Secretary (Hourly, \$1,373-\$1,682) Design and Construction

Programmable Typewriter Operator III (Part-time) (\$687-\$841)

Research Assistant (Trust) (\$1,030-\$1,232) Physics

Computer Assistant (\$1,106-\$1,324) Computing Services

Technical Assistant (Trust) (\$1,274-\$1,548) Pharmacology

Technologist I (Trust) (\$1,616-\$1,992) Genetics

Administrative Assistant I (Cafeteria and Conference Coordinator) (\$1,754-\$2,171) Housing and Food Services

Biochemistry Technologist II (Trust) (\$1,829-\$2,265) Pediatrics

Electronics Technician III (\$1,908-\$2,368) Computing Science

Console Operator (\$1,908-\$2,368) Computing Services

Programmer/Analyst III (Trust) (\$2,472-\$3,085) Computing Science

Engineering Technologist III (\$1,908-\$2,368) Physical Plant (Telecommunications)

For vacant library positions, please contact the Library Personnel Office, 5th floor, Cameron Library, phone 432-3339.

## Advertisements

*Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of thirty words and a minimum charge of \$1.50.*

# \* STARDUST VIDEO RENTALS & SALES

Mon. to Wed. - Rent A Videodisc Machine & Three Free Films for 2 days for **ONLY \$10.95!!!**

Th. or Fri. - **\$11.95 per day with 2 FREE FILMS**

Sat. - Sun. - **\$15.95 with 2 FREE FILMS**

### SPECIAL WEEKEND RATE

**\$25.95 - Fri., Sat., Sun.  
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HUB Mall  
433-4881

HOURS:  
Mon. - Fri.  
10 am. - 6 pm.  
Sat. 10 am. - 5 pm.

Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone.

#### Accommodations available

For rent - Four bedroom, furnished home for one year. \$850. Phone 432-5979, 436-9302.

For sale - Reduced-\$70,000. Downtown condo.

Bedroom, den, underground parking. Resi Richter 483-9432, 455-4181. A. E. LePage.

For sale - Millcreek starter home. \$59,900.

Resi Richter 483-9432, 455-4181. A.E. LePage.

For sale - Windsor Park bungalow. Vendor anxious. Resi Richter 483-9432, 455-4181. A.E. LePage.

For sale - Distinctively designed and recently renovated, gracious, ten room, four bedroom, family home in Grandview offers four new bathrooms, two fireplaces, security system. Call Eleanor Duncan at Langley 434-7368, 436-3050.

For sale - Cosy, sunny, one bedroom condo. with fireplace, dishwasher. Oliver area. \$68,000. Call evenings, weekends 482-6803.

For sale - Three acres. Gorgeous "A" frame home, nestled in setting of mature trees, has four bedrooms plus den, two fireplaces. \$207,000. Fifteen mins. to city. Call Louise at Langley 436-3050, 438-6109.

#### Accommodations wanted

Wanted - Belgravia home up to \$125,000. First April possession. Call DeAnna Larson 481-0936, 436-5250. Spencer's.

#### Goods for sale

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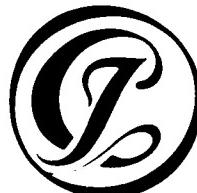
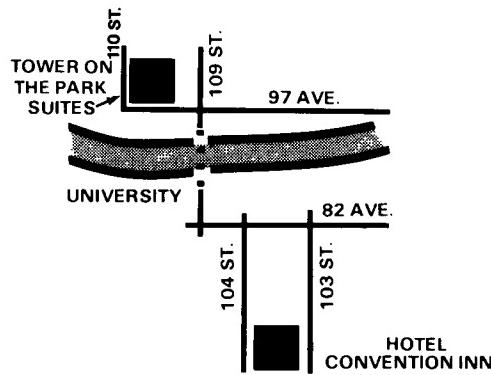
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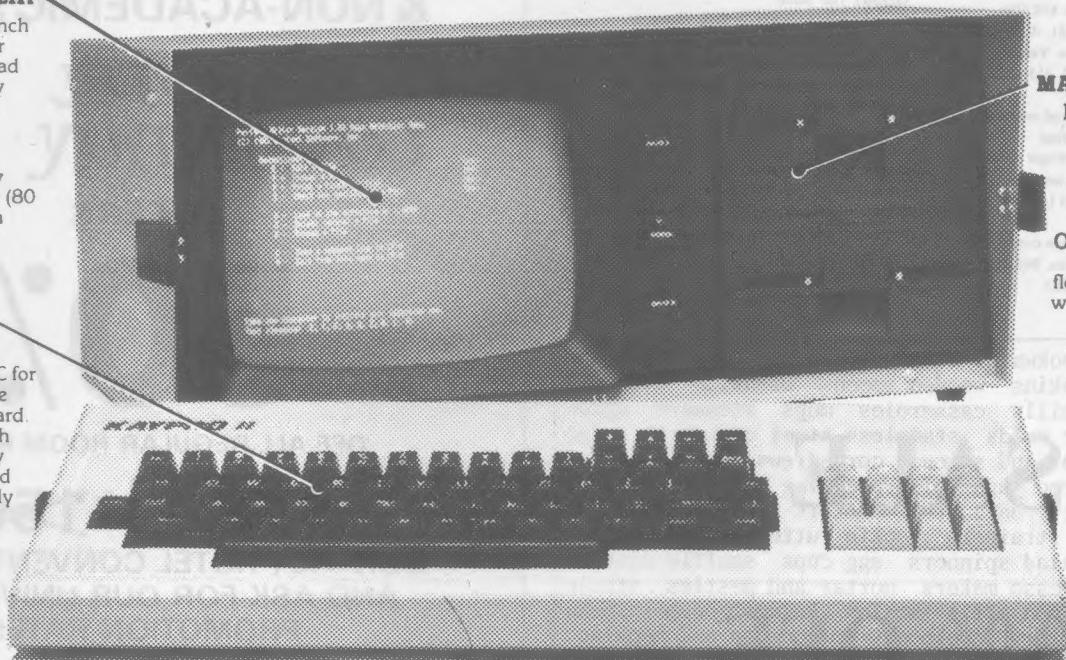
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